

CRUDE OIL AND PETROLEUM PRODUCTS

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Table 3.1 **U.S. Proved Reserves of Crude Oil and Natural Gas Liquids by State, December 31, 2002**
Million Barrels

Rank	State	Crude Oil	Natural Gas Liquids	Total
1	Texas	5,015	2,711	7,726
2	Alaska	4,678	405	5,083
3	Federal Offshore Gulf of Mexico (Louisiana)	4,088	783	4,871
4	California	3,633	95	3,728
5	New Mexico	710	838	1,548
6	Oklahoma	598	695	1,293
7	Wyoming	524	685	1,209
8	Louisiana	501	323	824
9	Colorado	214	396	610
10	Federal Offshore Pacific (California)	565	8	573
11	Federal Offshore Gulf of Mexico (Texas)	356	182	538
12	Kansas	237	263	500
13	Utah	241	253	494
14	North Dakota	342	47	389
15	Montana	288	6	294
16	Mississippi	179	8	187
17	West Virginia	13	99	112
18	Alabama	51	57	108
19	Michigan	61	47	108
20	Illinois	107	0	107
21	Kentucky	27	66	93
22	Florida	73	14	87
23	Ohio	67	0	67
24	Arkansas	49	4	53
25	Nebraska	18	0	18
26	Indiana	15	0	15
27	Pennsylvania	12	0	12
	Lower-48 States	17,595	7,588	25,183
	Miscellaneous	15	9	24
	U.S. Total	22,677	7,943	30,620

Source: EIA, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 2002*

Table 3.2 Proved Reserves of Crude Oil and Natural Gas Liquids in Utah, 1960-2002
 Thousand Barrels

Year	Crude Oil Reserves ¹	Natural Gas Liquids Reserves ¹	Total Liquids Reserves	Production ²	Crude Oil Reserves-to-Production Ratio
1960	208,464	50,702	259,166	37,596	5.5
1961	218,105	50,418	268,523	33,084	6.6
1962	197,722	48,788	246,510	30,953	6.4
1963	219,576	46,591	266,167	33,449	6.6
1964	219,508	54,657	274,165	28,555	7.7
1965	196,877	51,358	248,235	25,319	7.8
1966	213,391	42,708	256,099	24,150	8.8
1967	201,046	42,748	243,794	24,044	8.4
1968	180,039	40,495	220,534	23,504	7.7
1969	195,290	38,789	234,079	23,306	8.4
1970	181,512	36,290	217,802	23,366	7.8
1971	165,806	33,947	199,753	23,630	7.0
1972	244,397	34,002	278,399	26,510	9.2
1973	264,512	52,544	317,056	32,544	8.1
1974	250,648	52,354	303,002	39,443	6.4
1975	208,318	49,367	257,685	40,144	5.2
1976	183,176	42,488	225,664	35,384	5.2
1977	252,000	34,317	286,317	37,316	6.8
1978	188,000	31,714	219,714	35,765	5.3
1979	201,000	59,000	260,000	27,652	7.3
1980	198,000	127,000	325,000	24,979	7.9
1981	190,000	277,000	467,000	24,309	7.8
1982	173,000	185,000	358,000	23,595	7.3
1983	187,000	221,000	408,000	31,045	6.0
1984	172,000	258,000	430,000	38,054	4.5
1985	276,000	285,000	561,000	41,080	6.7
1986	269,000	228,000	497,000	39,243	6.9
1987	284,000	232,000	516,000	35,829	7.9
1988	260,000	289,000	549,000	33,365	7.8
1989	246,000	224,000	470,000	28,504	8.6
1990	249,000	203,000	452,000	27,705	9.0
1991	233,000	218,000	451,000	25,928	9.0
1992	217,000	193,000	410,000	24,074	9.0
1993	228,000	175,000	403,000	21,826	10.4
1994	231,000	158,000	389,000	20,668	11.2
1995	216,000	166,000	382,000	19,976	10.8
1996	237,000	204,000	441,000	19,529	12.1
1997	234,000	213,000	447,000	19,593	11.9
1998	201,000	182,250	383,250	19,218	10.5
1999	268,000	166,050	434,050	16,362	16.4
2000	283,000	255,690	538,690	15,609	18.1
2001	271,000	242,190	513,190	15,274	17.7
2002	241,000	253,000	494,000	13,771	17.5

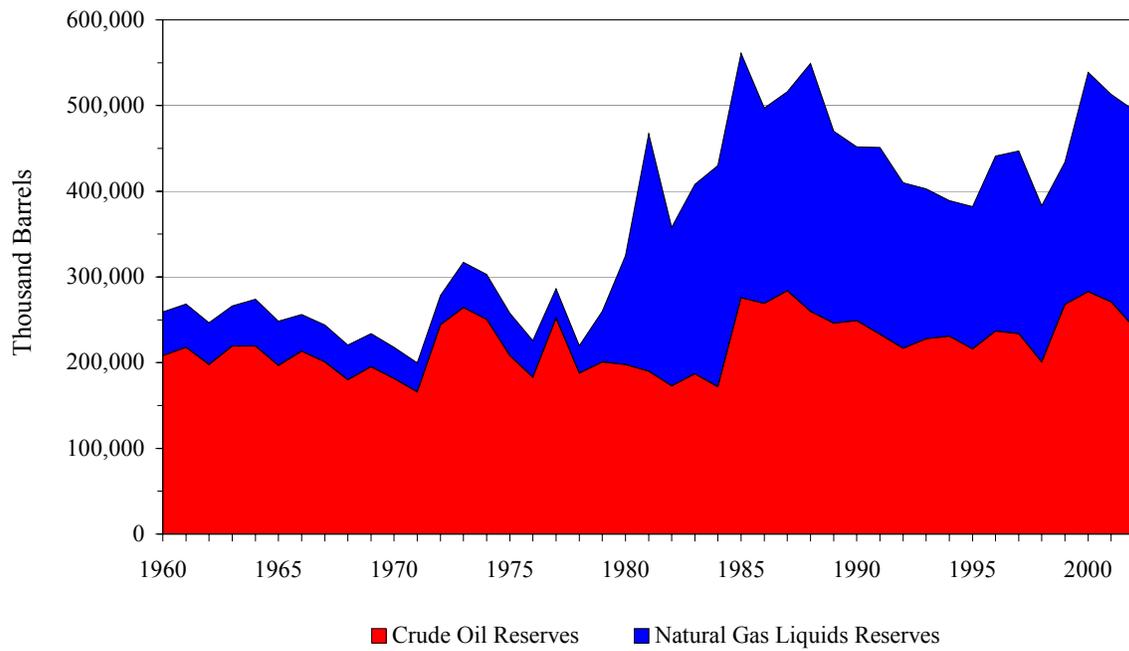
Source: ¹American Petroleum Institute, *Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas in the United States and Canada, 1960-1976*

¹EIA, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 2002, 1977-2002*

²Utah Division of Oil, Gas and Mining

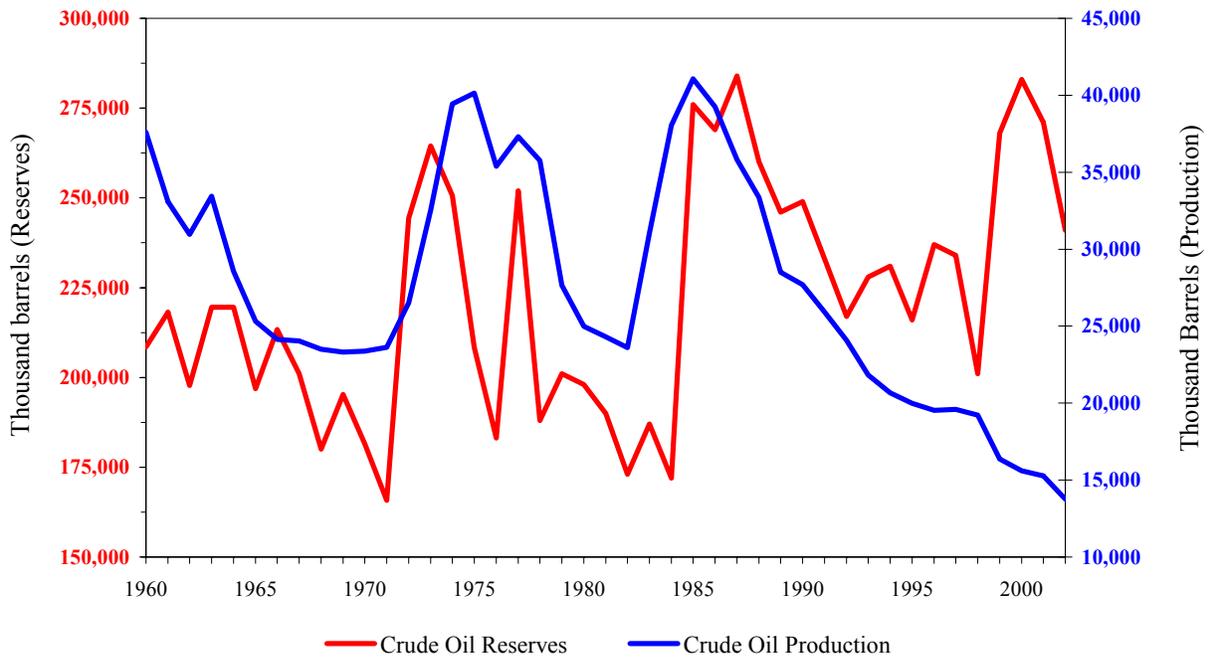
Note: The reserves-to-production ratio is a measure of remaining years of reserves at the current production level.

Figure 3.1 Proved Reserves of Crude Oil and Natural Gas Liquids in Utah, 1960-2002



Source: American Petroleum Institute, *Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas in the United States and Canada, 1960-1976*
EIA, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 2002, 1977-2002*

Figure 3.2 Utah Crude Oil Production and Total Proved Reserves, 1960-2002



Source: American Petroleum Institute, *Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas in the United States and Canada, 1960-1976*
 EIA, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 2002, 1977-2002*
 Utah Division of Oil, Gas and Mining (for production data)

Table 3.3 Exploration and Drilling Activity in Utah, 1960-2002

Year	Drilling Permits ¹	Rotary Rigs ²	New Field Wildcat ³	Extension ³	Development ³	Dry ³	Service ³	Total Wells ³
Average Active Rigs								
1960	262	29	12	13	111	100	na	236
1961	302	33	11	21	107	131	na	270
1962	298	29	21	29	101	130	na	281
1963	270	22	14	17	92	133	na	256
1964	203	17	9	14	47	103	na	173
1965	248	14	10	18	60	67	na	155
1966	201	14	5	10	61	76	na	152
1967	173	15	8	11	51	75	2	147
1968	169	12	4	7	52	90	0	153
1969	127	12	3	11	41	69	1	125
1970	99	12	8	12	38	44	1	103
1971	137	17	11	8	24	60	1	104
1972	207	34	17	23	51	59	0	150
1973	273	38	6	35	98	70	0	209
1974	283	42	4	5	134	66	3	212
1975	200	26	7	5	115	70	3	200
1976	236	19	4	2	61	62	3	132
1977	374	30	15	6	164	102	18	305
1978	438	32	18	10	152	98	2	280
1979	393	29	16	12	151	95	8	282
1980	529	43	13	25	132	140	2	312
1981	681	68	36	57	274	205	0	572
1982	658	41	41	33	234	156	20	484
1983	588	36	44	26	207	150	0	427
1984	622	46	44	7	257	141	1	450
1985	392	28	8	8	253	102	3	374
1986	219	13	7	7	148	57	2	221
1987	194	8	9	10	60	46	3	128
1988	165	6	11	9	69	44	2	135
1989	98	5	5	5	50	23	2	85
1990	253	5	13	9	60	19	0	101
1991	402	11	6	24	148	43	6	227
1992	372	13	17	13	259	50	7	346
1993	171	5	46	2	125	32	2	207
1994	307	7	5	10	145	32	10	202
1995	307	7	12	38	145	38	6	239
1996	371	9	19	41	160	36	19	275
1997	527	14	10	68	267	29	20	394
1998	655	12	16	83	333	28	20	480
1999	339	9	7	49	190	14	5	265
2000	673	16	13	105	301	22	6	447
2001	880	21	15	165	409	37	6	632
2002	628	13	29	60	305	26	5	425

Source: ¹Utah Division of Oil, Gas and Mining

²American Petroleum Institute, *Basic Petroleum Data Book*, 1960-1986; and Baker-Hughes Inc., 1987-2002

³Petroleum Information Corporation, *Drilling Success Summary*, 1960-1989; and Utah Division of Oil, Gas and Mining, 1990-2002

Table 3.4 Crude Oil Drilling Activity in Utah by Well Type, 1960-2002
Number of Wells

Year	New Field Wildcat	Extension	Development	Dry	Total
1960	3	7	102	82	194
1961	4	8	81	88	181
1962	11	18	80	94	203
1963	10	8	74	99	191
1964	8	10	40	85	143
1965	8	12	40	46	106
1966	4	8	55	67	134
1967	7	10	39	60	116
1968	4	3	44	73	124
1969	2	6	36	55	99
1970	5	11	32	36	84
1971	9	7	20	50	86
1972	13	21	43	50	127
1973	0	21	88	55	164
1974	2	3	126	60	191
1975	5	3	109	64	181
1976	2	0	52	50	104
1977	6	5	124	74	209
1978	6	5	64	41	116
1979	7	5	58	37	107
1980	4	6	61	58	129
1981	18	26	155	111	310
1982	26	19	127	87	259
1983	28	16	123	90	257
1984	38	6	184	104	332
1985	7	4	190	75	276
1986	5	4	100	38	147
1987	5	7	43	32	87
1988	5	6	51	31	93
1989	5	1	38	17	61
1990	4	6	49	14	73
1991	5	22	59	21	107
1992	4	4	58	11	77
1993	1	2	63	12	78
1994	0	8	62	14	84
1995	1	26	105	26	158
1996	2	32	135	28	197
1997	2	28	162	16	208
1998	6	42	111	10	169
1999	1	0	10	1	12
2000	0	7	80	5	92
2001	0	31	79	7	117
2002	1	8	34	3	46

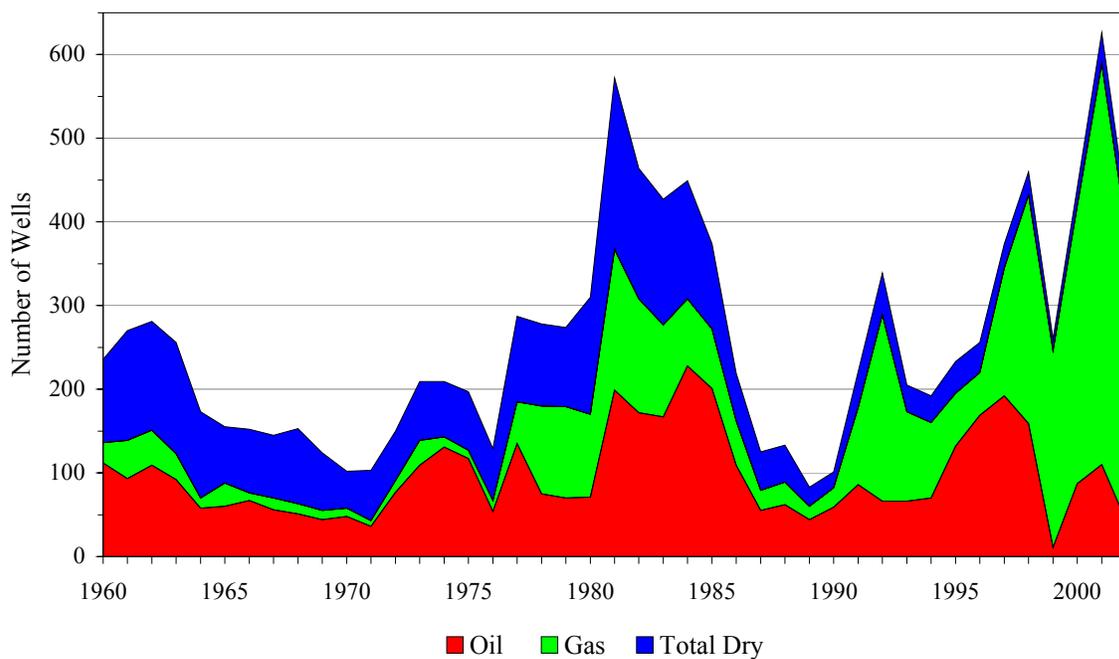
Source: Petroleum Information Corporation, *Drilling Success Summary*, 1960-1989
Utah Division of Oil, Gas and Mining, 1990-2002

Table 3.5 Well Completions in Utah, 1960-2002
Number of Wells

Year	Oil	Gas	Oil and Gas		Service	Total	Total Footage Drilled	Average Depth
							Feet	Feet
1960	112	24	100	na	236	1,357,611	5,753	
1961	93	46	131	na	270	1,591,650	5,895	
1962	109	42	130	na	281	1,602,559	5,703	
1963	92	31	133	na	256	1,413,836	5,523	
1964	58	12	103	na	173	894,409	5,170	
1965	60	28	67	na	155	786,420	5,074	
1966	67	9	76	na	152	793,382	5,220	
1967	56	14	75	2	147	753,346	5,125	
1968	51	12	90	0	153	809,865	5,293	
1969	44	11	69	1	125	720,687	5,765	
1970	48	10	44	1	103	699,856	6,795	
1971	36	7	60	1	104	790,452	7,601	
1972	77	14	59	0	150	1,385,396	9,236	
1973	109	30	70	0	209	1,840,706	8,807	
1974	131	12	66	3	212	1,719,701	8,112	
1975	117	10	70	3	200	1,660,178	8,301	
1976	54	13	62	3	132	833,172	6,312	
1977	135	50	102	18	305	1,815,361	5,952	
1978	75	105	98	2	280	1,740,829	6,217	
1979	70	109	95	8	282	1,651,794	5,857	
1980	71	99	140	2	312	1,793,177	5,747	
1981	199	168	205	0	572	3,764,185	6,581	
1982	172	136	156	20	484	3,103,363	6,412	
1983	167	110	150	0	427	2,681,406	6,280	
1984	228	80	141	1	450	3,073,797	6,831	
1985	201	71	102	3	377	2,666,858	7,074	
1986	109	53	57	2	221	1,596,866	7,226	
1987	55	24	46	3	128	785,620	6,138	
1988	62	27	44	2	135	755,167	5,594	
1989	44	16	23	2	85	409,979	4,823	
1990	59	23	19	0	101	691,088	6,842	
1991	86	92	43	6	227	1,253,781	5,523	
1992	66	223	50	7	346	2,217,336	6,408	
1993	66	107	32	2	207	1,182,823	5,714	
1994	70	90	32	10	202	1,020,078	5,050	
1995	132	63	38	6	239	1,380,681	5,777	
1996	169	51	36	19	275	1,551,343	5,641	
1997	192	153	29	20	394	2,245,400	5,699	
1998	159	273	28	20	480	2,725,957	5,679	
1999	11	235	14	5	265	1,386,289	5,231	
2000	87	332	22	6	447	2,658,948	5,948	
2001	110	479	37	6	632	3,982,710	6,302	
2002	43	351	26	5	425	2,734,018	6,433	

Source: Petroleum Information Corporation, *Drilling Success Summary*, 1960-1989
Utah Division of Oil, Gas and Mining, 1990-2002

Figure 3.3 Well Completions in Utah, 1960-2002



Source: Petroleum Information Corporation, *Drilling Success Summary*, 1960-1989
Utah Division of Oil, Gas and Mining, 1990-2002

Table 3.6 U.S. Crude Oil Production by State, 1994-2002

Thousand Barrels

2002 Rank	State	1994	1995	1996	1997	1998	1999	2000	2001	2002	Average Annual Percent Change 1994-2002
1	Federal Offshore (Gulf Coast)	314,587	345,491	373,059	411,271	444,029	495,028	522,898	558,023	567,810	7.7
2	Texas	590,570	560,221	544,191	537,376	505,516	449,339	443,349	424,793	411,985	-4.4
3	Alaska	568,955	541,654	510,766	472,949	429,232	383,198	355,198	351,409	359,335	-5.5
4	California	286,373	278,965	282,409	285,172	285,045	267,878	271,599	260,667	258,010	-1.3
5	Louisiana	127,174	130,881	134,363	131,609	129,177	110,017	106,903	104,918	93,477	-3.6
6	New Mexico	63,483	65,439	72,004	77,442	69,273	65,663	68,623	68,998	67,041	0.9
7	Oklahoma	90,957	87,591	85,636	83,786	78,554	71,196	74,007	68,725	66,642	-3.7
8	Wyoming	79,528	78,884	73,368	70,176	65,676	61,540	60,720	57,436	54,717	-4.5
9	Kansas	47,327	43,616	41,599	41,427	36,131	33,170	34,698	32,736	32,721	-4.4
10	North Dakota	27,690	29,458	32,317	35,826	35,565	32,879	32,714	31,693	30,993	1.6
11	Federal Offshore (California)	58,242	71,724	64,419	54,725	46,289	38,816	35,927	33,193	29,783	-7.4
12	Mississippi	20,124	19,912	19,535	20,930	22,031	19,405	20,092	19,530	18,015	-1.2
13	Colorado	30,907	28,617	24,170	24,374	22,459	19,193	19,027	19,554	17,734	-6.5
14	Montana	16,558	16,529	16,173	16,164	16,603	15,319	15,753	16,287	16,855	0.3
15	Utah	20,668	19,976	19,529	19,593	19,218	16,362	15,609	15,274	13,771	-4.8
16	Illinois	17,148	16,190	15,675	16,115	13,732	12,065	10,851	11,115	12,051	-4.0
17	Alabama	18,303	18,731	16,868	14,810	12,408	11,121	10,460	9,346	8,631	-8.8
18	Arkansas	9,260	8,867	9,088	8,791	7,998	7,129	7,465	7,584	7,344	-2.7
19	Michigan	12,207	11,383	10,740	10,052	8,899	7,835	8,278	7,374	7,219	-6.2
20	Ohio	8,758	8,258	8,305	8,593	6,541	5,968	6,574	6,050	6,004	-4.1
21	Florida	6,093	5,682	6,292	6,381	5,971	4,889	4,889	4,426	3,656	-5.8
22	Nebraska	4,217	3,794	3,541	3,337	3,174	2,661	2,955	2,922	2,779	-4.8
23	Kentucky	4,064	3,492	3,448	2,988	2,919	2,777	3,467	2,970	2,679	-4.4
24	Pennsylvania	1,982	1,939	1,692	1,069	1,330	1,500	1,358	2,233	2,233	5.1
25	Indiana	2,492	2,778	2,523	2,430	2,208	1,964	2,076	2,023	1,962	-2.7
26	West Virginia	1,918	1,933	1,544	1,592	1,453	1,390	1,300	1,499	1,382	-3.5
27	South Dakota	1,453	1,352	1,257	1,335	1,206	1,100	1,171	1,255	1,214	-2.0
28	Nevada	1,694	1,342	1,058	980	799	706	621	571	553	-12.8
29	Tennessee	421	382	381	367	309	348	346	386	275	-4.3
30	New York	299	304	309	276	217	193	181	183	165	-6.8
31	Missouri	123	120	115	114	114	91	106	90	95	-2.6
32	Arizona	65	71	84	82	78	66	57	60	63	0.2
33	Virginia	17	13	13	10	10	9	12	11	22	8.5
	U.S. Total	2,433,657	2,405,589	2,376,471	2,362,142	2,274,164	2,140,815	2,139,284	2,123,334	2,097,216	-1.8

Source: EIA, *Petroleum Supply Annual, Volume 1, 2002*

Utah data from Utah Division of Oil, Gas and Mining

Table 3.7 Crude Oil Production in Utah, 1960-2002

Barrels

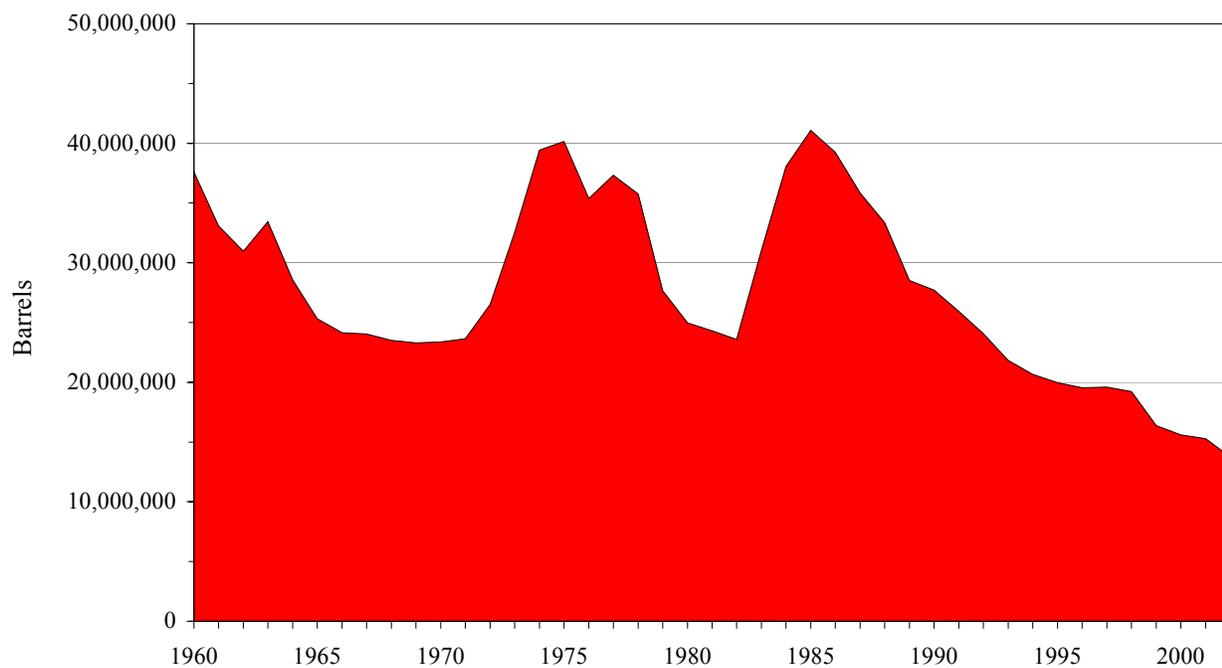
Year	Number of Producing Oil Wells ¹	Production ²	Average Well Production	Average Daily Production	Average Daily Well Production
1960	796	37,595,624	47,231	102,720	129
1961	795	33,083,532	41,615	90,640	114
1962	852	30,953,140	36,330	84,803	100
1963	835	33,448,539	40,058	91,640	110
1964	840	28,554,988	33,994	78,019	93
1965	841	25,319,032	30,106	69,367	82
1966	867	24,150,392	27,855	66,165	76
1967	869	24,044,187	27,669	65,874	76
1968	875	23,504,076	26,862	64,219	73
1969	843	23,305,504	27,646	63,851	76
1970	889	23,365,737	26,283	64,016	72
1971	870	23,629,644	27,161	64,739	74
1972	890	26,510,196	29,787	72,432	81
1973	989	32,543,791	32,906	89,161	90
1974	1,076	39,442,793	36,657	108,062	100
1975	1,323	40,144,239	30,343	109,984	83
1976	1,188	35,384,000	29,785	96,678	81
1977	1,448	37,316,000	25,771	102,236	71
1978	1,291	35,765,000	27,703	97,986	76
1979	1,560	27,652,396	17,726	75,760	49
1980	1,714	24,978,654	14,573	68,248	40
1981	1,543	24,309,495	15,755	66,601	43
1982	1,583	23,595,261	14,905	64,645	41
1983	1,668	31,045,199	18,612	85,055	51
1984	1,862	38,053,871	20,437	103,972	56
1985	1,944	41,079,871	21,132	112,548	58
1986	1,753	39,243,487	22,386	107,516	61
1987	1,813	35,828,536	19,762	98,160	54
1988	1,796	33,364,938	18,577	91,161	51
1989	1,802	28,504,075	15,818	78,093	43
1990	2,063	27,705,048	13,429	75,904	37
1991	2,085	25,927,639	12,435	71,035	34
1992	1,820	24,073,573	13,227	65,775	36
1993	1,858	21,825,986	11,747	59,797	32
1994	1,820	20,667,621	11,356	56,624	31
1995	1,865	19,975,648	10,711	54,728	29
1996	1,981	19,528,780	9,858	53,357	27
1997	1,962	19,592,548	9,986	53,678	27
1998	1,972	19,218,109	9,745	52,652	27
1999	1,686	16,361,751	9,704	44,827	27
2000	1,817	15,609,169	8,591	42,648	23
2001	1,980	15,273,995	7,714	41,847	21
2002	1,957	13,771,204	7,037	37,729	19

Source: ¹Petroleum Information Corporation, *Oil and Gas Production Report, Nevada and Utah, 1960-1989*

¹Utah Division of Oil, Gas and Mining, 1990-2002

²Utah Division of Oil, Gas and Mining

Figure 3.4 Utah Crude Oil Production, 1960-2002



Source: Utah Division of Oil, Gas and Mining

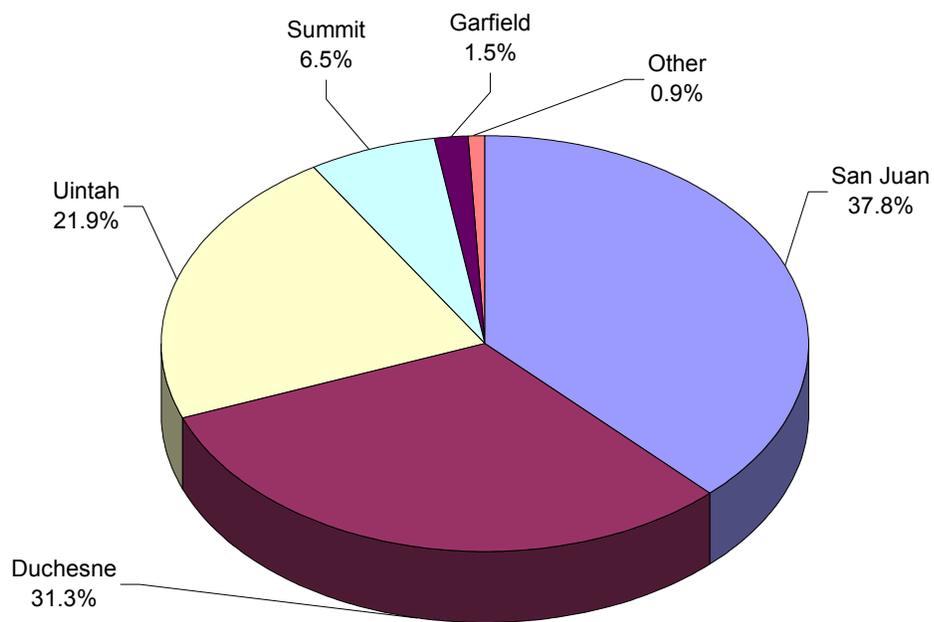
Table 3.8 Utah Crude Oil Production by County, 1993-2002
Barrels

2002 Rank	County	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Average Annual Percent Change 1993 to 2002	Cumulative Production Through 2002
1	San Juan	6,780,431	6,669,388	6,585,400	6,637,068	6,927,831	7,302,937	6,764,639	6,151,389	5,503,733	5,191,715	-2.8	531,019,791
2	Duchesne	6,366,835	5,782,606	5,654,825	6,103,552	6,358,598	6,268,634	4,697,532	4,771,287	4,979,765	4,296,480	-3.7	279,947,097
3	Uintah	3,524,284	3,246,123	3,370,300	3,189,781	3,147,423	2,940,615	2,637,875	2,820,120	3,196,788	3,013,476	-1.5	222,874,516
4	Summit	4,515,352	4,441,344	3,930,036	3,116,779	2,735,596	2,341,921	1,911,551	1,477,075	1,240,278	897,549	-16.1	177,297,125
5	Garfield	282,058	273,266	260,031	250,315	239,969	222,038	220,179	214,266	206,270	210,235	-3.2	26,520,200
6	Grand	342,981	243,491	169,097	224,456	177,423	141,786	140,599	195,383	120,148	120,911	-7.5	7,205,459
7	Emery	11,384	8,623	5,744	4,771	3,354	3,662	1,649	3,279	4,552	2,602	-6.1	674,106
8	Daggett	2,539	2,616	1,312	1,828	2,271	1,949	1,898	2,696	1,308	1,463	0.3	358,161
9	Carbon	122	164	27	0	0	0	527	211	128	46	--	141,967
10	Sanpete	0	0	0	230	83	0	72	0	20	0	--	405
11	Washington	0	0	0	0	0	0	0	0	0	0	--	4,774
12	Box Elder	0	0	0	0	0	0	0	0	0	0	--	2,665
	State Total*	21,825,986	20,667,621	19,975,648	19,528,780	19,592,548	19,218,109	16,361,751	15,609,169	15,273,995	13,771,204	-4.9	1,246,046,266

Source: Utah Division of Oil, Gas and Mining

* "State Total" reflects more up-to-date data than the sum of individual counties and hence, may differ from the sum of the parts.

Figure 3.5 Utah Crude Oil Production by County, 2002



Source: Utah Division of Oil, Gas and Mining

Table 3.9 **Crude Oil Production in Utah by the 25 Largest Fields, 2002**
Barrels

Rank	Field	County	Year Discovered	Production	Percent of State Production	Cumulative Production	Percent of Cumulative Production
1	Greater Aneth	San Juan	1956	4,776,563	34.69	428,530,012	34.39
2	Bluebell	Duchesne/Uintah	1955	2,020,498	14.67	152,032,890	12.20
3	Monument Butte	Duchesne	1964	1,642,600	11.93	20,553,940	1.65
4	Altamont	Duchesne	1970	647,802	4.70	117,075,598	9.40
5	Anschutz Ranch East	Summit	1980	628,577	4.56	127,039,321	10.20
6	Red Wash	Uintah	1951	478,790	3.48	80,715,046	6.48
7	Natural Buttes	Uintah	1972	446,131	3.24	4,989,429	0.40
8	Brundage Canyon	Duchesne	1984	432,206	3.14	3,729,592	0.30
9	Wonsits Valley	Uintah	1959	428,582	3.11	48,304,053	3.88
10	Antelope Creek	Duchesne	1983	273,123	1.98	4,116,198	0.33
11	Upper Valley	Garfield	1964	210,235	1.53	26,520,200	2.13
12	Walker Hollow	Uintah	1953	201,175	1.46	17,857,586	1.43
13	Pineview	Summit	1975	196,997	1.43	30,708,062	2.46
14	Gypsum Hills	Uintah	1964	81,740	0.59	1,473,833	0.12
15	8 Mile Flat North	Uintah	1983	67,004	0.49	2,681,332	0.22
16	Ashley Valley	Uintah	1929	57,152	0.42	20,462,933	1.64
17	Cedar Rim	Duchesne	1969	55,224	0.40	12,859,692	1.03
18	Kennedy Wash	Uintah	1980	54,815	0.40	332,234	0.03
19	Lisbon	San Juan	1960	54,435	0.40	51,040,386	4.10
20	Uteland Butte	Uintah	1962	52,626	0.38	981,464	0.08
21	Bridger Lake	Summit	1966	50,920	0.37	13,329,810	1.07
22	Windy Ridge East	Uintah	1988	47,964	0.35	590,455	0.05
23	Undesignated			43,427	0.32	1,118,332	0.09
24	Desert Creek	San Juan	1956	33,597	0.24	1,999,410	0.16
25	Cave Canyon	San Juan	1984	33,311	0.24	2,363,661	0.19
Subtotal				13,015,494	94.51	1,171,405,469	94.01
State Total				13,771,204		1,246,046,266	

Source: Utah Division of Oil, Gas and Mining

Table 3.10 Crude Oil Production in Utah by the 25 Largest Operators, 2002
Barrels

Rank	Operator	Production	Percent of State Production	Cumulative Production*	Percent of Cumulative Production
1	ExxonMobil Oil Corp	3,153,994	22.90	56,441,647	4.53
2	Inland Production Co	1,669,431	12.12	11,127,034	0.89
3	El Paso Prod Oil & Gas Co	1,590,635	11.55	2,966,011	0.24
4	Shenandoah Energy Inc	1,191,477	8.65	4,364,848	0.35
5	Chevron USA Inc	825,802	6.00	192,623,589	15.46
6	Devon Energy Prod Co Lp	780,577	5.67	2,225,382	0.18
7	BP America Production Co	632,706	4.59	632,706	0.05
8	Texaco E&P Inc	631,532	4.59	26,370,790	2.12
9	Citation Oil & Gas Corp	607,835	4.41	8,643,388	0.69
10	Williams Prod RMT Co	425,075	3.09	610,325	0.05
11	Flying J Oil & Gas	424,490	3.08	4,237,246	0.34
12	Petroglyph Operating Co	309,290	2.25	2,950,512	0.24
13	Quinex Energy Corp	199,886	1.45	4,212,154	0.34
14	Dominion Expl & Prod Inc	121,528	0.88	280,213	0.02
15	Rim Southwest Corp	118,995	0.86	228,540	0.02
16	US Oil & Gas Inc	86,603	0.63	4,575,356	0.37
17	Jouney Operating LLC	86,158	0.63	213,502	0.02
18	Wildrose Resources Corp	67,785	0.49	1,130,370	0.09
19	EOG Resources Inc	59,764	0.43	161,223	0.01
20	Rim Operating Inc	57,559	0.42	163,793	0.01
21	Tom Brown Inc	55,395	0.40	231,372	0.02
22	Merit Energy Co	51,707	0.38	2,373,666	0.19
23	Hunt Petroleum AEC Inc	50,419	0.37	50,419	0.00
24	Equity Oil Co	41,973	0.30	7,643,433	0.61
25	Elm Ridge Resources Inc	39,546	0.29	74,811	0.01
	Subtotal	13,280,162	96.43	334,532,330	26.85
	State Total	13,771,204		1,246,046,266	

Source: Utah Division of Oil, Gas and Mining

*Cumulative production numbers will change as companies merge or consolidate. Refer to Utah Division of Oil, Gas, and Mining for historical cumulative production totals for former companies.

Table 3.11 **Crude Oil Production by Landownership in Utah, 1960-2002**
Barrels

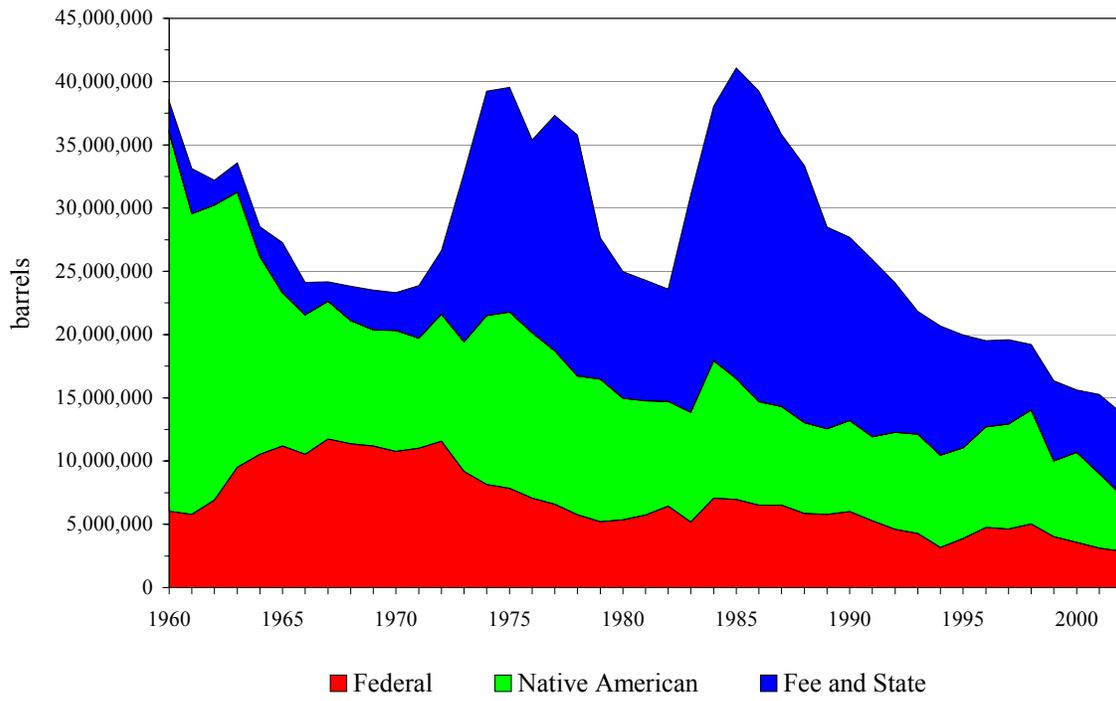
Year	Federal ¹	Native American ¹	Fee and State	Total ²
1960	6,026,547	29,908,204	2,497,624	38,432,375
1961	5,793,970	23,771,895	3,560,057	33,125,922
1962	6,921,282	23,312,036	1,974,248	32,207,566
1963	9,499,892	21,769,278	2,320,888	33,590,058
1964	10,532,879	15,630,619	2,359,009	28,522,507
1965	11,200,542	12,092,831	3,967,778	27,261,151
1966	10,551,634	11,012,524	2,546,105	24,110,263
1967	11,753,542	10,883,897	1,537,642	24,175,081
1968	11,374,753	9,736,363	2,708,354	23,819,470
1969	11,200,470	9,162,860	3,155,979	23,519,309
1970	10,755,483	9,578,200	2,972,012	23,305,695
1971	11,020,240	8,703,633	4,151,454	23,875,327
1972	11,572,780	10,022,721	5,034,418	26,629,919
1973	9,170,278	10,253,570	13,363,067	32,786,915
1974	8,155,149	13,346,894	17,727,771	39,229,814
1975	7,859,147	13,916,798	17,772,432	39,548,377
1976	7,068,045	13,083,578	15,232,377	35,384,000
1977	6,598,072	12,123,221	18,594,707	37,316,000
1978	5,757,469	10,959,570	19,047,961	35,765,000
1979	5,217,641	11,266,465	11,168,290	27,652,396
1980	5,357,524	9,597,679	10,023,451	24,978,654
1981	5,741,831	9,014,098	9,553,566	24,309,495
1982	6,442,595	8,274,857	8,877,809	23,595,261
1983	5,178,825	8,693,450	17,172,924	31,045,199
1984	7,060,663	10,871,207	20,122,001	38,053,871
1985	6,973,348	9,541,767	24,564,756	41,079,871
1986	6,512,093	8,182,235	24,549,159	39,243,487
1987	6,516,132	7,800,045	21,512,359	35,828,536
1988	5,869,096	7,161,520	20,334,322	33,364,938
1989	5,795,761	6,762,666	15,945,648	28,504,075
1990	6,003,862	7,193,799	14,507,387	27,705,048
1991	5,279,341	6,638,655	14,009,643	25,927,639
1992	4,593,083	7,681,932	11,798,558	24,073,573
1993	4,286,583	7,837,548	9,701,855	21,825,986
1994	3,179,306	7,290,508	10,197,807	20,667,621
1995	3,878,921	7,167,286	8,929,441	19,975,648
1996	4,760,131	7,949,683	6,818,966	19,528,780
1997	4,626,115	8,299,273	6,667,160	19,592,548
1998	5,023,287	9,022,246	5,172,576	19,218,109
1999	4,017,966	6,000,979	6,342,806	16,361,751
2000	3,560,636	7,124,690	4,923,843	15,609,169
2001	3,109,347	5,905,373	6,259,275	15,273,995
2002*	2,855,950	4,422,564	6,492,690	13,771,204

Source: ¹Minerals Management Services, *Mineral Revenues*

²Utah Division of Oil, Gas, and Mining

*UEO estimations, except total

Figure 3.6 Utah Crude Oil Production by Landownership, 1960-2002



Source: Minerals Management Services, *Mineral Revenues*
Utah Division of Oil, Gas, and Mining

Table 3.12 U.S. Stripper Oil Well Production by State, January 1, 2003

Rank (by # of wells)	State	Number of Stripper Oil Wells	Production from Stripper Oil Wells	Oil Wells Plugged and Abandoned	Average Daily	Total 2002 Oil	Percent Production from Stripper Oil Wells
					Production per Well	Production	
			Bbls		Bbls	Thousand Bbls	
1	Texas	124,551	127,252,695	5,228	2.80	365,817	34.8
2	Oklahoma	56,673	56,299,808	774	2.72	66,030	85.3
3	Kansas	33,317	25,002,372	1,722	2.06	33,343	75.0
4	Ohio	28,850	4,398,074	183	0.42	6,004	73.3
5	California	24,420	35,030,269	2,452	3.93	288,280	12.2
6	Louisiana	20,891	14,999,393	731	1.97	60,378	24.8
7	Kentucky	19,462	2,049,971	237	0.29	2,721	75.3
8	Illinois	17,466	10,720,000	710	1.68	13,250	80.9
9	Pennsylvania	15,470	2,324,000	210	0.41	2,324	100.0
10	New Mexico	13,379	13,386,587	217	2.74	58,293	23.0
11	Wyoming	11,416	8,430,429	228	2.02	54,726	15.4
12	West Virginia	8,210	1,248,000	46	0.42	1,248	100.0
13	Colorado	5,384	4,643,717	119	2.36	19,178	24.2
14	Indiana	4,956	1,962,078	125	1.08	1,962	100.0
15	Michigan	3,428	3,397,608	155	2.72	7,219	47.1
16	Arkansas	3,362	3,087,798	42	2.52	7,344	42.0
17	New York	2,758	174,766	65	0.17	179	97.6
18	Montana	2,274	1,842,960	65	2.22	16,938	10.9
19	Nebraska	1,451	1,717,983	100	3.24	2,779	61.8
20	North Dakota	1,384	2,263,059	55	4.48	30,800	7.3
21	Utah	1,049	1,445,945	16	3.78	13,771	10.5
22	Alabama	639	1,141,083	3	4.89	5,174	22.1
23	Mississippi	442	562,190	109	3.48	17,014	3.3
24	Tennessee	424	246,026	38	1.59	316	77.9
25	Missouri	364	95,071	4	0.72	95	100.0
26	South Dakota	22	27,345	1	3.41	1,214	2.3
27	Arizona	17	23,951	0	3.86	63	38.0
28	Virginia	13	3,428	0	0.72	25	13.7
Totals		402,072	323,776,606	13,635	2.24	2,037,622*	15.9

Source: Interstate Oil and Gas Compact Commission, *Marginal Oil and Gas: Fuel for Economic Growth, 2003*

*Total from all oil producing states, not just ones with stripper wells

Table 3.13 **Stripper Oil Well Production in Utah, 1991-2002**

Year	Number of Stripper Wells	Production from Stripper Wells	Total Production	Percent Oil Production from Stripper Wells
		Bbls	Bbls	
1991	992	2,554,211	25,927,639	9.85
1992	1,028	2,361,588	24,073,573	9.81
1993	1,011	2,470,262	21,825,986	11.32
1994	1,067	2,572,038	20,667,621	12.44
1995	1,181	1,344,294	19,975,648	6.73
1996	876	1,258,718	19,528,780	6.45
1997	821	1,167,482	19,592,548	5.96
1998	838	1,113,425	19,218,109	5.79
1999	898	1,302,804	16,361,751	7.96
2000	943	1,418,314	15,609,169	9.09
2001	1,043	1,449,051	15,273,995	9.49
2002	1,049	1,445,945	13,771,204	10.50
Average				8.78

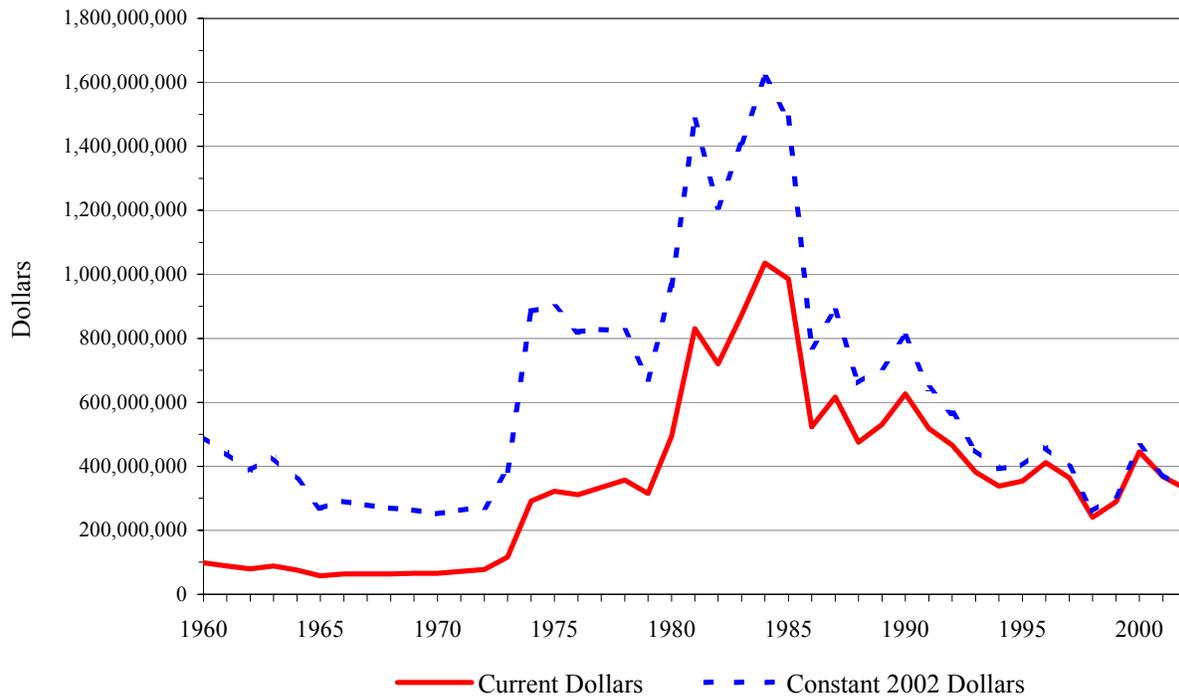
Source: Interstate Oil and Gas Compact Commission, *Marginal Oil and Gas: Fuel for Economic Growth, 2003* and previous issues

Table 3.14 **Production, Price, and Value of Crude Oil in Utah, 1960-2002**

Year	Crude Oil Production ¹	Wellhead Price ²	Value of Crude Oil	Wellhead Price	Value of Crude Oil
	Barrels	Dollars/Barrel (Current Dollars)	Current Dollars	Dollars/Barrel (Constant 2002 Dollars)	Constant 2002 Dollars
1960	37,595,624	2.61	98,124,579	13.10	492,612,801
1961	33,083,532	2.69	88,994,701	13.35	441,800,789
1962	30,953,140	2.56	79,240,038	12.54	388,185,588
1963	33,448,539	2.64	88,304,143	12.79	427,699,197
1964	28,554,988	2.63	75,099,618	12.55	358,444,623
1965	25,319,032	2.26	57,221,012	10.59	268,058,064
1966	24,150,392	2.64	63,757,035	12.02	290,373,413
1967	24,044,187	2.63	63,236,212	11.62	279,433,320
1968	23,504,076	2.71	63,696,046	11.48	269,799,982
1969	23,305,504	2.80	65,255,411	11.31	263,481,436
1970	23,365,737	2.81	65,657,721	10.77	251,695,462
1971	23,629,644	3.04	71,834,118	11.10	262,199,237
1972	26,510,196	2.94	77,939,976	10.29	272,863,399
1973	32,543,791	3.59	116,832,210	11.90	387,354,410
1974	39,363,032	7.39	290,892,806	22.48	884,911,487
1975	40,025,353	8.06	322,604,345	22.43	897,779,767
1976	35,384,000	8.80	311,379,200	23.18	820,038,839
1977	37,316,000	8.96	334,351,360	22.17	827,337,661
1978	35,765,000	9.98	356,934,700	23.05	824,435,529
1979	27,652,396	11.41	315,513,838	24.33	672,693,619
1980	24,978,654	19.79	494,327,563	38.65	965,429,356
1981	24,309,495	34.14	829,926,159	60.98	1,482,343,661
1982	23,595,261	30.50	719,655,461	51.29	1,210,107,446
1983	31,045,199	28.12	872,990,996	45.48	1,411,893,103
1984	38,053,871	27.21	1,035,445,830	42.43	1,614,622,977
1985	41,079,871	23.98	985,095,307	36.25	1,489,206,367
1986	39,243,487	13.33	523,115,682	19.72	773,802,774
1987	35,828,536	17.22	616,967,390	24.73	885,926,363
1988	33,364,938	14.24	475,116,717	19.78	659,867,875
1989	28,504,075	18.63	531,030,917	24.92	710,422,051
1990	27,705,048	22.61	626,411,135	29.12	806,637,388
1991	25,927,639	19.99	518,293,504	24.84	643,964,938
1992	24,073,573	19.39	466,786,580	23.52	566,202,364
1993	21,825,986	17.48	381,518,235	20.70	451,899,324
1994	20,667,621	16.38	338,535,632	19.01	392,801,473
1995	19,975,648	17.71	353,768,726	20.11	401,731,255
1996	19,528,780	21.10	412,057,258	23.51	459,031,785
1997	19,592,548	18.57	363,833,616	20.29	397,558,263
1998	19,218,109	12.52	240,610,725	13.51	259,729,019
1999	16,361,751	17.69	289,439,375	18.83	308,108,422
2000	15,609,169	28.53	445,329,592	29.69	463,468,951
2001	15,273,995	24.09	367,950,540	24.54	374,780,014
2002	13,771,204	23.87	328,718,639	23.87	328,718,639

Source: ¹Utah Division of Oil, Gas and Mining
²EIA, *Petroleum Marketing Annual, 2002*

Figure 3.7 Value of Crude Oil in Utah, 1960-2002



Source: Utah Division of Oil, Gas and Mining
EIA, *Petroleum Marketing Annual*, 2002

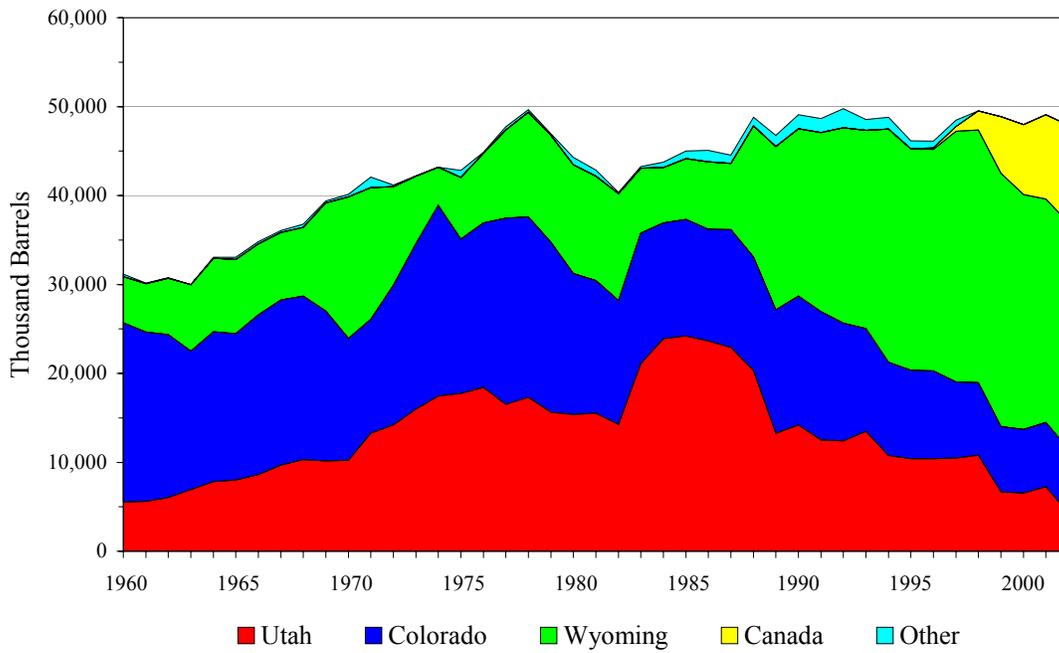
Table 3.15 Utah Refinery Receipts of Crude Oil by State of Origin, 1960-2002
Thousand Barrels

Year	Utah	Colorado	Wyoming	Canada	Other*	Out of State Total	Total
1960	5,536	20,156	5,169	--	296	25,325	30,861
1961	5,621	19,030	5,431	--	67	24,461	30,082
1962	6,060	18,319	6,332	--	64	24,651	30,711
1963	6,948	15,544	7,473	--	0	23,017	29,965
1964	7,844	16,831	8,287	--	81	25,118	32,962
1965	8,027	16,435	8,339	--	249	24,774	32,801
1966	8,619	17,963	7,991	--	227	25,954	34,573
1967	9,713	18,550	7,589	--	211	26,139	35,852
1968	10,303	18,394	7,737	--	342	26,131	36,434
1969	10,172	16,841	12,156	--	206	28,997	39,169
1970	10,236	13,687	15,934	--	288	29,621	39,857
1971	13,272	12,815	14,815	--	1,182	27,630	40,902
1972	14,210	15,705	11,099	--	172	26,804	41,014
1973	15,979	18,631	7,574	--	24	26,205	42,184
1974	17,461	21,445	4,270	--	0	25,715	43,176
1975	17,736	17,372	6,926	--	784	24,298	42,034
1976	18,419	18,512	7,818	--	99	26,330	44,749
1977	16,530	20,935	9,896	--	365	30,831	47,361
1978	17,319	20,280	11,786	--	270	32,066	49,385
1979	15,650	19,077	12,046	--	154	31,123	46,773
1980	15,392	15,846	12,233	--	820	28,079	44,291
1981	15,530	14,931	11,724	--	691	26,655	42,876
1982	14,265	13,911	12,033	--	163	25,944	40,372
1983	21,095	14,696	7,283	--	182	21,979	43,256
1984	23,893	13,045	6,195	--	613	19,240	43,746
1985	24,207	13,107	6,827	--	872	19,934	45,013
1986	23,655	12,567	7,574	--	1,290	20,141	45,086
1987	22,922	13,246	7,454	--	913	20,700	44,535
1988	20,306	12,783	14,739	--	978	27,522	48,806
1989	13,285	13,861	18,380	--	1,250	32,241	46,776
1990	14,191	14,494	18,844	--	1,576	33,338	49,105
1991	12,535	14,423	20,113	--	1,576	34,536	48,647
1992	12,400	13,262	21,949	--	2,159	35,211	49,771
1993	13,480	11,575	22,279	--	1,219	33,854	48,554
1994	10,774	10,480	26,227	--	1,322	36,706	48,802
1995	10,412	9,929	24,916	--	906	34,845	46,163
1996	10,423	9,857	24,905	174	766	34,937	46,126
1997	10,473	8,565	28,191	536	726	37,293	48,492
1998	10,789	8,161	28,414	2,153	na	38,728	50,017
1999	6,701	7,335	28,461	6,371	na	42,166	49,367
2000	6,542	7,173	26,398	7,870	na	41,440	48,482
2001	7,269	7,208	25,120	9,500	na	41,828	49,597
2002	4,331	7,141	25,456	10,966	na	43,563	48,394

Source: EIA, Form EIA-810, *Monthly Refinery Report*

* "Other" includes Nevada, Montana, and New Mexico

Figure 3.8 Utah Refinery Receipts of Crude Oil by State of Origin, 1960-2002



Source: EIA, Form EIA-810, *Monthly Refinery Report*

Table 3.16a **Refinery Production Activity in Utah, 2002**
 Thousand Barrels

Product Description	Beginning Stocks	Receipts	Inputs	Production	Shipments	Ending Stocks
Crude Oil	533	48,394	48,405	0	0	422
Unfinished Oils	506	690	1,479	759	81	395
Motor Gasoline (Oxygenated Gasoline, Other Finished Gasoline)	552	194	1	26,672	26,928	488
Gasoline Blending Components	654	441	1,312	1,691	747	726
Finished Aviation Gasoline	w	w	w	w	w	w
Jet Fuel-Kerosene Type	146	0	5	4,716	4,726	131
Kerosene	w	w	w	w	w	w
Distillate Fuel Oil	482	2,213	1,194	16,613	17,364	750
Residual Fuel Oil	50	11	0	817	830	36
Wax	w	w	w	w	w	w
Petroleum Coke-Marketable	w	w	w	w	w	w
Petroleum Coke-Catalyst	0	0	0	817	0	0
Still Gas	0	17	17	1,952	14	0
Products of Natural Gas Proc. Plants (Butane, Isobutane, Pentanes Plus)	12	1,699	1,695	0	0	16
Other Hydrocarbons, Hydrogen and Oxygenates	18	70	47	0	34	29
Isobutane (incl. Isobutylene) - LRG	27	723	689	282	322	22
Propane (incl. Propylene) - LRG	80	0	1	658	655	79
n-Butane (incl. Butylene) - LRG	58	720	830	375	288	35
Other Products-Non Fuel	w	w	w	w	w	w

Source: EIA, Form EIA-810, *Monthly Refinery Report*

w = Withheld to avoid disclosure of individual company data

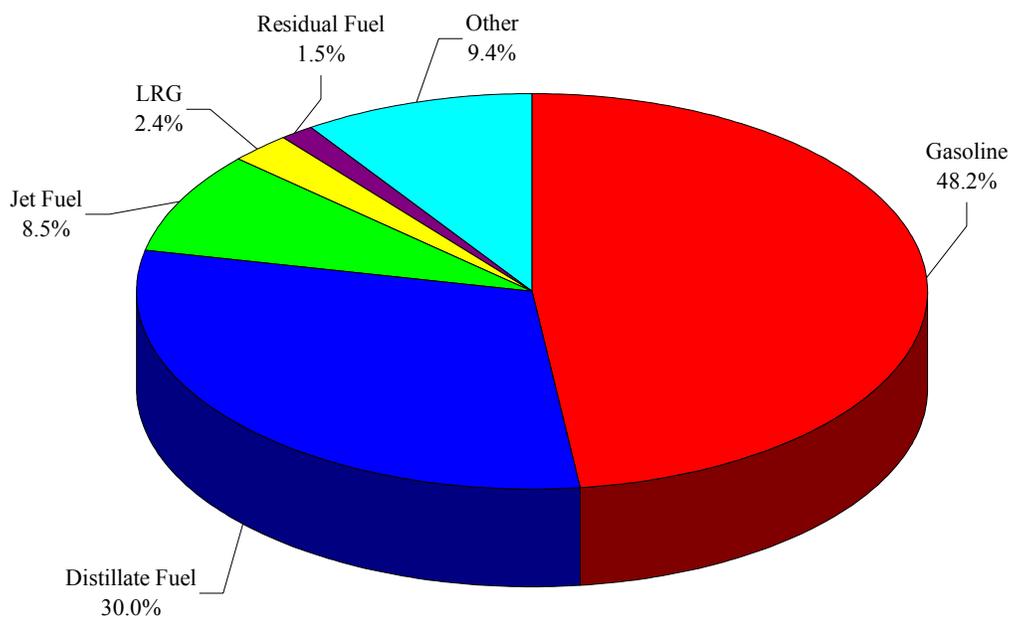
Table 3.16b **Refinery Production Activity in Utah, 2001**
 Thousand Barrels

Product Description	Beginning Stocks	Receipts	Inputs	Production	Shipments	Ending Stocks
Crude Oil	454	49,597	49,509	0	9	533
Unfinished Oils	413	435	1,215	891	1	506
Motor Gasoline (Oxygenated Gasoline, Other Finished Gasoline)	450	0	0	26,759	26,656	552
Gasoline Blending Components	424	347	1,173	1,881	769	654
Finished Aviation Gasoline	w	w	w	w	w	w
Jet Fuel-Kerosene Type	142	0	3	4,935	4,928	146
Kerosene	w	w	w	w	w	w
Distillate Fuel Oil	556	2,042	1,327	16,495	17,283	482
Residual Fuel Oil	54	1	0	976	935	50
Wax	w	w	w	w	w	w
Petroleum Coke-Marketable	w	w	w	w	w	w
Petroleum Coke-Catalyst	0	0	0	875	0	0
Still Gas	0	26	26	1,955	25	0
Products of Natural Gas Proc. Plants (Butane, Isobutane, Pentanes Plus)	10	1,671	1,669	0	0	12
Other Hydrocarbons, Hydrogen and Oxygenates	13	60	41	0	16	18
Isobutane (incl. Isobutylene) - LRG	22	707	715	359	342	27
Propane (incl. Propylene) - LRG	30	0	0	655	5,997	80
n-Butane (incl. Butylene) - LRG	66	772	857	387	310	58
Other Products-Non Fuel	w	w	w	w	w	w

Source: EIA, Form EIA-810, *Monthly Refinery Report*

w = Withheld to avoid disclosure of individual company data

Figure 3.9 Refinery Production Activity in Utah, 2002



Source: EIA, Form EIA-810, *Monthly Refinery Report*

Table 3.17 Petroleum Refining Capacity in Utah as of January 1, 2003
Barrels per Stream Day (except where noted)

Company	Location	Crude capacity		Vacuum Distillation	Thermal Cracking	Catalytic Cracking			Catalytic Reforming		Catalytic Hydrocracking	Catalytic Hydrotreating			Fuel Solvents Deasphalting
		Barrels/calendar day (Operating)	Barrels/stream day (Operating)			Delayed Coking	Fresh	Recycled	Low Pressure	High Pressure		Naphtha Reformer Feed	Distillate	Other/Residual	
Big West Oil Co.	N. Salt Lake	24,000	25,000	5,000	0	10,000	0	0	5,500	0	7,000	7,000	0	0	
Chevron U.S.A.	Salt Lake City	45,000	49,000	27,500	8,500	14,000	0	0	8,000	0	8,300	13,300	7,200	0	
Holly Refining and Marketing (formerly Phillips 66 Co.)	Woods Cross	24,700	26,000	5,500	0	8,900	0	0	7,700	0	12,600	1,900	0	5,040	
Silver Eagle Refining (formerly Inland Refining Inc.)	Woods Cross	11,000	12,500	6,000	0	0	0	0	2,200	0	2,200	4,000	0	0	
Tesoro West Coast	Salt Lake City	58,000	60,000	0	0	23,000	2,200	0	11,600	0	11,600	0	0	0	
Utah Total		162,700	172,500	37,300	8,500	55,900	2,200	0	35,000	0	41,700	26,200	7,200	5,040	

Company	Location	Alkylates	Aromatics	Asphalt and Road Oil	Isomers		Lubricants	Marketable Petroleum Coke	Hydrogen (MMcfd)	Sulfur (short tons/day)
					Isobutane	Isopentane and Isohexane				
Big West Oil Co.	N. Salt Lake	1,800	0	0	1,400	1,700	0	0	0	4
Chevron U.S.A.	Salt Lake City	5,600	0	0	1,300	0	0	1,748	0	21
Holly Refining and Marketing (formerly Phillips 66 Co.)	Woods Cross	2,200	0	1,800	0	3,000	0	0	0	10
Silver Eagle Refining (formerly Inland Refining Inc.)	Woods Cross	0	0	1,500	0	0	0	0	1	0
Tesoro West Coast	Salt Lake City	6,000	0	0	0	0	0	0	0	18
Utah Total		15,600	0	3,300	2,700	4,700	0	1,748	1	53

Source: EIA, Petroleum Supply Annual, Volume 1, 2002

Table 3.18 **Petroleum Refinery Utilization of Capacity in Utah, 1960-2002**

Year	Capacity	Crude Oil Runs		Utilization Rate
	Barrels per day	Barrels per year	Barrels per day	
1960	97,000	31,126,000	85,044	87.7
1961	101,000	30,123,000	82,529	81.7
1962	101,000	30,655,000	83,986	83.2
1963	102,500	30,104,000	82,477	80.5
1964	102,500	32,930,000	89,973	87.8
1965	103,000	33,176,000	90,893	88.2
1966	103,200	34,792,000	95,321	92.4
1967	109,000	36,081,000	98,852	90.7
1968	111,600	36,750,000	100,410	90.0
1969	112,600	39,253,000	107,542	95.5
1970	114,900	40,113,000	109,899	95.6
1971	117,700	42,021,000	115,126	97.8
1972	119,300	41,229,000	112,648	94.4
1973	121,300	42,330,000	115,973	95.6
1974	133,150	43,008,000	117,830	88.5
1975	143,000	42,797,000	117,252	82.0
1976	152,000	44,907,000	122,697	80.7
1977	158,425	47,857,000	131,115	82.8
1978	158,335	49,522,000	135,677	85.7
1979	162,425	48,180,000	132,000	81.3
1980	167,000	44,421,000	121,369	72.7
1981	167,000	43,007,000	117,827	70.6
1982	166,500	40,368,000	110,597	66.4
1983	168,000	43,185,000	118,315	70.4
1984	169,400	43,539,000	118,959	70.2
1985	161,500	45,021,000	123,345	76.4
1986	154,500	45,034,000	123,381	79.9
1987	153,500	44,483,000	121,871	79.4
1988	154,500	48,796,000	133,322	86.3
1989	154,500	46,767,000	128,129	82.9
1990	154,500	48,977,000	134,184	86.9
1991	154,500	48,852,000	133,841	86.6
1992	154,500	49,496,000	135,235	87.5
1993	154,500	48,307,000	132,348	85.7
1994	154,500	48,486,000	132,838	86.0
1995	150,500	46,157,000	126,458	84.0
1996	146,500	45,766,000	125,044	85.4
1997	158,500	48,486,000	132,838	83.8
1998	158,000	49,531,000	135,701	85.9
1999	158,000	47,658,000	130,570	82.6
2000	162,000	48,445,000	132,363	81.7
2001	163,000	49,509,000	135,641	83.2
2002	162,700	48,405,000	132,616	81.5

Source: EIA, Form EIA-810, *Monthly Refinery Report*

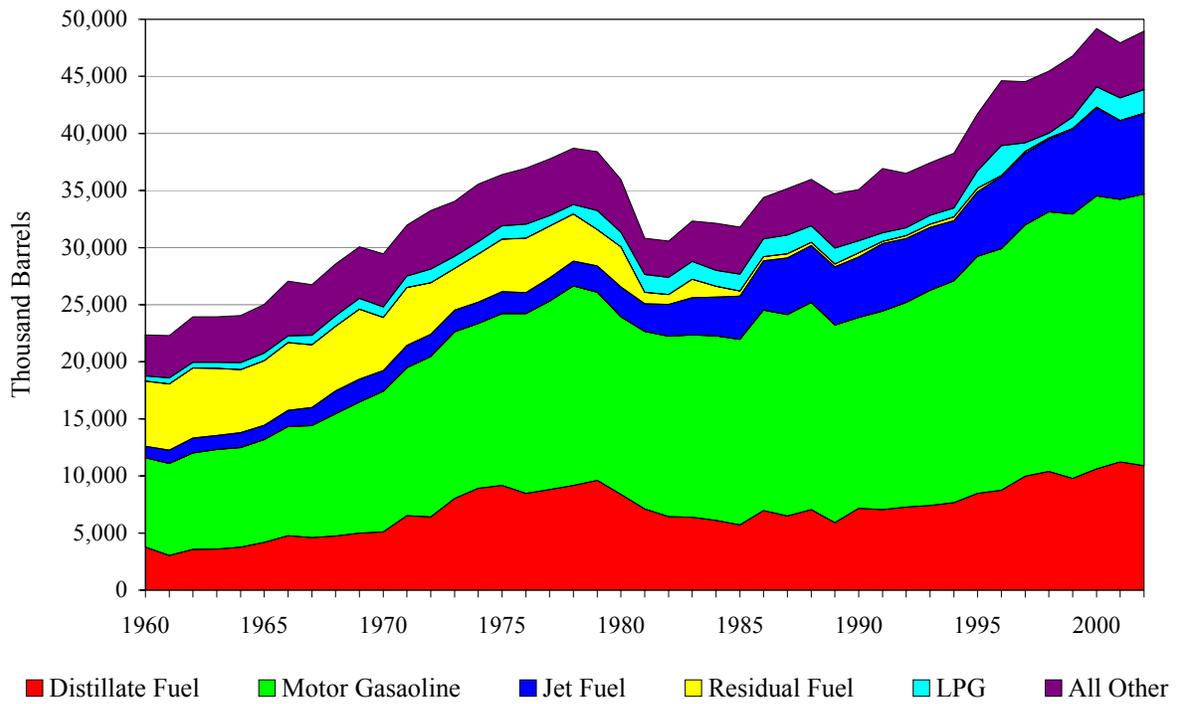
Table 3.19 Consumption of Petroleum Products in Utah, 1960-2002
Thousand Barrels

Year	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel	Jet Fuel	Kerosene	LPG	Lubricants	Motor Gasoline	Residual Fuel	Other Petroleum Products	Total
1960	813	595	3,775	1,003	36	452	214	7,813	5,715	1,926	22,341
1961	687	715	3,040	1,172	212	538	208	8,052	5,783	1,881	22,288
1962	903	532	3,568	1,311	330	511	210	8,455	6,107	2,023	23,950
1963	801	529	3,581	1,237	384	521	210	8,736	5,872	2,065	23,937
1964	791	391	3,749	1,302	564	599	221	8,751	5,519	2,177	24,063
1965	838	383	4,193	1,244	474	677	251	9,001	5,662	2,305	25,029
1966	1,209	370	4,778	1,426	626	595	261	9,554	5,928	2,314	27,060
1967	1,072	312	4,604	1,564	547	836	221	9,819	5,497	2,290	26,761
1968	1,021	251	4,737	1,987	650	928	243	10,712	5,657	2,373	28,559
1969	1,209	223	4,995	1,999	436	959	251	11,476	6,129	2,397	30,075
1970	1,576	178	5,107	1,808	250	939	256	12,308	4,656	2,372	29,450
1971	1,399	168	6,522	1,947	301	1,010	247	12,958	5,076	2,336	31,965
1972	1,804	179	6,403	1,963	378	1,223	265	14,052	4,494	2,487	33,247
1973	1,419	172	8,028	1,889	361	1,080	305	14,614	3,638	2,549	34,054
1974	1,571	187	8,906	1,864	198	1,096	292	14,439	4,222	2,796	35,571
1975	1,219	161	9,165	1,903	146	1,169	232	15,063	4,603	2,731	36,391
1976	1,661	161	8,484	1,828	112	1,219	257	15,741	4,768	2,731	36,961
1977	1,823	174	8,797	2,034	113	928	299	16,509	4,543	2,534	37,754
1978	1,699	164	9,168	2,164	112	841	321	17,478	4,122	2,632	38,701
1979	1,903	147	9,610	2,302	158	1,658	336	16,480	3,187	2,628	38,409
1980	1,477	139	8,401	2,637	102	1,301	299	15,534	3,495	2,598	35,983
1981	927	140	7,098	2,424	155	1,546	287	15,548	1,022	1,665	30,812
1982	933	76	6,438	2,801	192	1,523	262	15,793	855	1,692	30,563
1983	820	103	6,387	3,284	58	1,577	274	15,954	1,600	2,259	32,316
1984	1,340	78	6,107	3,413	49	1,387	292	16,151	953	2,359	32,129
1985	1,576	94	5,715	3,808	31	1,486	272	16,240	431	2,155	31,809
1986	1,295	110	6,978	4,335	24	1,542	266	17,541	360	1,955	34,406
1987	1,429	99	6,507	4,969	30	1,652	301	17,623	357	2,205	35,172
1988	1,069	112	7,060	4,977	25	1,432	290	18,148	288	2,569	35,971
1989	1,671	106	5,917	5,095	11	1,386	298	17,311	250	2,649	34,694
1990	1,378	106	7,162	5,281	13	1,074	307	16,724	367	2,670	35,082
1991	2,870	118	7,038	5,917	17	747	274	17,395	200	2,357	36,933
1992	1,633	133	7,286	5,607	4	696	280	17,905	245	2,736	36,524
1993	1,730	114	7,422	5,518	9	779	285	18,837	285	2,444	37,422
1994	1,819	88	7,653	5,270	9	784	298	19,433	343	2,579	38,275
1995	2,179	64	8,469	5,658	6	1,531	292	20,771	294	2,453	41,718
1996	2,361	52	8,746	6,303	9	2,621	284	21,170	87	2,996	44,628
1997	1,992	61	9,976	6,277	12	750	300	22,024	149	2,985	44,526
1998	2,452	51	10,398	6,373	13	430	314	22,735	96	2,583	45,446
1999	2,380	73	9,793	7,443	13	1,013	317	23,141	60	2,573	46,806
2000	2,295	84	10,629	7,701	13	1,804	312	23,895	71	2,375	49,179
2001	1,441	76	11,236	6,880	17	1,988	286	22,993	18	3,004	47,939
2002*	2,076	67	10,900	7,039	17	2,065	300	23,806	31	2,668	48,969

Source: EIA, *State Energy Data Report, 2001*

*UEO estimations

Figure 3.10 Consumption of Petroleum Products in Utah, 1960-2002



Source: EIA, *State Energy Data Report*, 2001

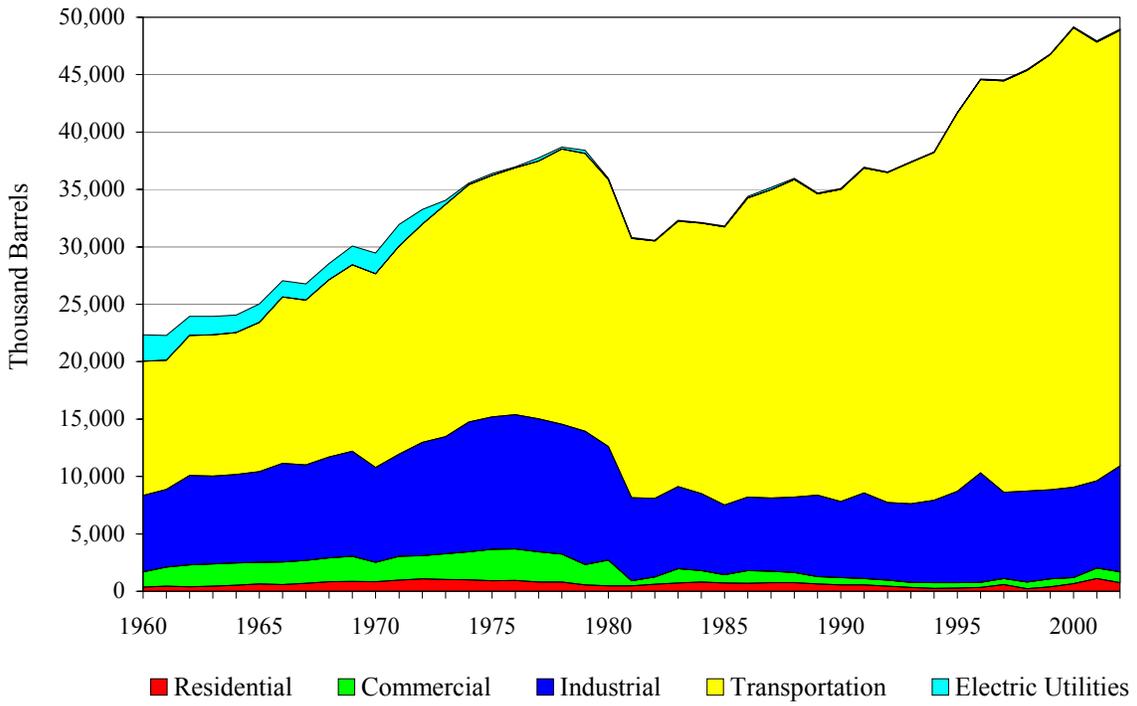
Table 3.20 Consumption of Petroleum Products in Utah by End Use, 1960-2002
 Thousand Barrels

Year	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total
1960	349	1,349	6,642	11,698	2,302	22,341
1961	431	1,683	6,753	11,249	2,172	22,288
1962	400	1,904	7,780	12,189	1,677	23,950
1963	436	1,957	7,633	12,308	1,603	23,937
1964	517	1,942	7,708	12,364	1,531	24,063
1965	624	1,899	7,910	12,991	1,605	25,029
1966	570	1,981	8,597	14,482	1,430	27,060
1967	698	2,004	8,305	14,343	1,411	26,761
1968	832	2,085	8,792	15,413	1,437	28,559
1969	857	2,203	9,134	16,256	1,624	30,075
1970	844	1,687	8,249	16,893	1,777	29,450
1971	974	2,087	8,896	18,127	1,880	31,965
1972	1,082	2,028	9,850	19,018	1,269	33,247
1973	1,017	2,266	10,191	20,217	363	34,054
1974	985	2,441	11,312	20,692	141	35,571
1975	925	2,736	11,541	21,028	162	36,391
1976	933	2,748	11,712	21,488	80	36,961
1977	803	2,641	11,567	22,451	292	37,754
1978	817	2,424	11,309	23,969	182	38,701
1979	561	1,761	11,610	24,214	263	38,409
1980	460	2,255	9,897	23,245	126	35,983
1981	483	421	7,237	22,592	79	30,812
1982	600	641	6,839	22,424	59	30,563
1983	730	1,240	7,152	23,115	79	32,316
1984	813	998	6,690	23,570	58	32,129
1985	707	747	6,068	24,207	80	31,809
1986	698	1,091	6,410	26,072	135	34,406
1987	747	995	6,392	26,850	187	35,172
1988	760	887	6,570	27,651	103	35,971
1989	645	622	7,094	26,249	86	34,694
1990	567	613	6,649	27,169	84	35,082
1991	550	565	7,454	28,282	82	36,933
1992	432	542	6,772	28,717	62	36,524
1993	336	435	6,858	29,730	62	37,422
1994	263	478	7,187	30,290	57	38,275
1995	285	454	7,977	32,936	66	41,718
1996	329	456	9,525	34,260	59	44,628
1997	582	527	7,522	35,838	58	44,526
1998	222	579	7,934	36,643	66	45,446
1999	396	682	7,750	37,923	55	46,806
2000	672	513	7,877	40,015	101	49,179
2001	1,097	922	7,606	38,204	110	47,939
2002*	751	926	9,254	37,930	108	48,969

Source: EIA, *State Energy Data Report, 2001*

*UEO estimations

Figure 3.11 Consumption of Petroleum Products in Utah by End Use, 1960-2002



Source: EIA, *State Energy Data Report, 2001*

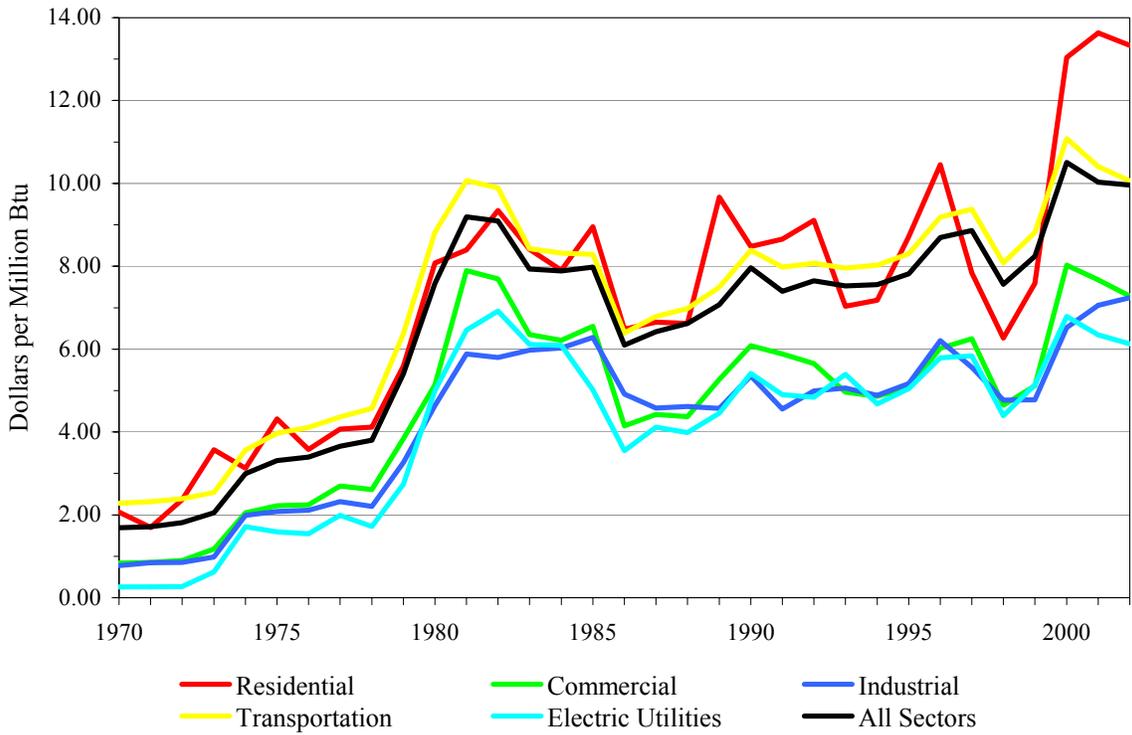
Table 3.21 End-Use Price of Petroleum Products Consumed in Utah, 1970-2002
Dollars per Million Btu

Year	Residential	Commercial	Industrial	Transportation	Electric Utilities	All Sectors
1970	2.06	0.84	0.77	2.28	0.26	1.69
1971	1.70	0.86	0.84	2.32	0.26	1.71
1972	2.37	0.90	0.85	2.39	0.27	1.81
1973	3.57	1.18	0.98	2.55	0.62	2.05
1974	3.12	2.05	1.99	3.56	1.71	2.99
1975	4.31	2.22	2.08	3.97	1.59	3.31
1976	3.57	2.24	2.11	4.11	1.54	3.39
1977	4.07	2.69	2.32	4.37	1.99	3.65
1978	4.12	2.61	2.21	4.57	1.72	3.80
1979	5.59	3.84	3.26	6.37	2.74	5.40
1980	8.08	5.14	4.64	8.82	5.00	7.58
1981	8.40	7.90	5.89	10.06	6.46	9.19
1982	9.35	7.69	5.80	9.89	6.92	9.09
1983	8.41	6.35	5.97	8.42	6.11	7.93
1984	7.91	6.21	6.03	8.32	6.09	7.89
1985	8.95	6.55	6.28	8.29	5.02	7.98
1986	6.48	4.15	4.91	6.39	3.54	6.10
1987	6.65	4.42	4.58	6.79	4.12	6.42
1988	6.62	4.37	4.62	6.98	3.98	6.62
1989	9.67	5.27	4.57	7.49	4.45	7.07
1990	8.48	6.08	5.35	8.39	5.42	7.96
1991	8.66	5.88	4.55	7.98	4.90	7.39
1992	9.11	5.65	4.99	8.07	4.84	7.65
1993	7.04	4.96	5.06	7.96	5.39	7.53
1994	7.18	4.86	4.88	8.03	4.67	7.55
1995	8.72	5.08	5.17	8.30	5.05	7.82
1996	10.45	6.02	6.21	9.18	5.79	8.69
1997	7.84	6.25	5.56	9.38	5.84	8.86
1998	6.27	4.64	4.77	8.08	4.40	7.57
1999	7.59	5.11	4.78	8.82	5.14	8.24
2000	13.04	8.02	6.52	11.08	6.79	10.50
2001	13.63	7.67	7.06	10.40	6.34	10.03
2002*	13.33	7.28	7.24	10.06	6.13	9.96

Source: EIA, *State Energy Data Report, 2001*

*UEO estimations

Figure 3.12 End Use Price of Petroleum Products in Utah, 1970-2002



Source: EIA, *State Energy Data Report, 2001*

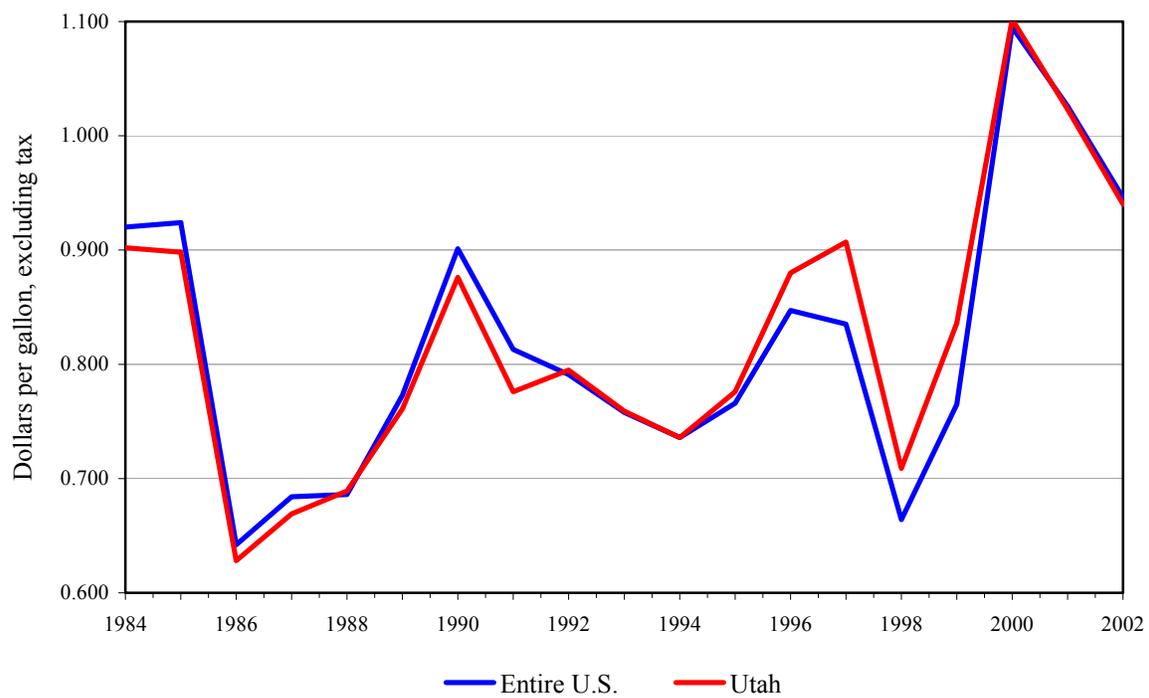
Table 3.22 U.S. Price of Motor Gasoline by State, 1994-2002
Dollars per gallon, excluding taxes

2002 Rank	State	1994	1995	1996	1997	1998	1999	2000	2001	2002	Average Annual Percent Change 1994-2002
1	Alaska	1.098	1.131	1.202	1.176	0.990	0.997	1.330	1.383	1.287	2.0
2	Hawaii	1.080	1.061	1.147	1.148	1.112	1.019	1.322	1.459	1.195	1.3
3	Nevada	0.844	0.889	1.016	0.938	0.772	0.976	1.251	1.159	1.022	2.4
4	California	0.765	0.785	0.894	0.909	0.738	0.914	1.190	1.155	1.021	3.6
5	District of Columbia	w	w	w	w	w	w	1.113	w	1.021	--
6	Wyoming	0.828	0.847	0.928	0.934	0.766	0.863	1.151	1.100	1.019	2.6
7	North Dakota	0.815	0.820	0.901	0.899	0.721	0.800	1.146	1.109	1.013	2.7
8	Minnesota	0.777	0.786	0.893	0.902	0.722	0.800	1.139	1.106	1.010	3.3
9	Colorado	0.822	0.821	0.910	0.908	0.736	0.818	1.134	1.135	1.009	2.6
10	Vermont	0.819	0.847	0.908	0.886	0.685	0.803	1.146	1.049	1.000	2.5
11	Illinois	0.727	0.772	0.868	0.844	0.684	0.776	1.150	1.110	0.998	4.0
12	Oregon	0.810	0.827	0.931	0.932	0.722	0.923	1.206	1.120	0.995	2.6
13	Maine	0.792	0.829	0.883	0.895	0.724	0.806	1.133	1.026	0.991	2.8
14	New Jersey	0.799	0.844	0.894	0.875	0.697	0.799	1.169	1.082	0.984	2.6
15	South Dakota	0.772	0.795	0.874	0.873	0.706	0.784	1.159	1.106	0.983	3.0
16	Massachusetts	0.760	0.822	0.875	0.883	0.680	0.786	1.173	1.089	0.982	3.2
17	New Mexico	0.774	0.803	0.898	0.881	0.703	0.823	1.124	1.053	0.982	3.0
18	New Hampshire	0.781	0.820	0.879	0.877	0.692	0.795	1.157	1.079	0.981	2.8
19	Connecticut	0.777	0.812	0.875	0.872	0.681	0.788	1.168	1.096	0.980	2.9
20	Arizona	0.826	0.833	0.965	0.968	0.745	0.852	1.147	1.078	0.964	1.9
21	Wisconsin	0.725	0.759	0.850	0.818	0.655	0.755	1.099	1.054	0.963	3.5
22	Washington	0.796	0.839	0.941	0.904	0.713	0.893	1.187	1.104	0.962	2.4
23	Rhode Island	0.778	0.787	0.845	0.844	0.638	0.746	1.117	1.033	0.956	2.6
24	Kentucky	0.724	0.765	0.845	0.835	0.661	0.770	1.094	1.010	0.952	3.4
25	Idaho	0.758	0.780	0.889	0.907	0.739	0.846	1.145	1.045	0.951	2.8
26	New York	0.748	0.795	0.851	0.855	0.669	0.777	1.125	1.028	0.951	3.0
27	Montana	0.826	0.799	0.917	0.917	0.750	0.854	1.147	1.051	0.950	1.7
28	Ohio	0.723	0.737	0.816	0.802	0.668	0.769	1.098	1.020	0.948	3.4
29	Michigan	0.709	0.724	0.818	0.784	0.629	0.725	1.099	1.025	0.944	3.6
30	Utah	0.736	0.776	0.880	0.907	0.709	0.836	1.102	1.023	0.940	3.1
31	Maryland	0.736	0.799	0.881	0.851	0.673	0.741	1.068	1.022	0.940	3.1
32	West Virginia	0.769	0.803	0.851	0.836	0.655	0.723	1.078	0.992	0.940	2.5
33	Mississippi	0.717	0.777	0.847	0.837	0.669	0.735	1.084	0.991	0.939	3.4
34	Indiana	0.709	0.737	0.817	0.808	0.651	0.735	1.092	1.033	0.937	3.5
35	Virginia	0.735	0.774	0.842	0.834	0.663	0.739	1.080	0.999	0.936	3.0
36	Florida	0.734	0.769	0.842	0.832	0.660	0.744	1.050	0.972	0.933	3.0
37	Delaware	0.723	0.792	0.842	0.827	0.653	0.753	1.113	1.006	0.929	3.1
38	Missouri	0.684	0.703	0.803	0.787	0.605	0.703	1.061	0.992	0.927	3.8
39	Kansas	0.685	0.702	0.797	0.792	0.615	0.687	1.037	0.992	0.926	3.8
40	Nebraska	0.729	0.725	0.813	0.811	0.636	0.713	1.075	1.012	0.921	2.9
41	Iowa	0.703	0.708	0.812	0.804	0.622	0.703	1.070	1.018	0.917	3.3
42	South Carolina	0.687	0.723	0.787	0.773	0.607	0.695	1.036	0.949	0.917	3.6
43	Alabama	0.727	0.772	0.831	0.834	0.663	0.724	1.050	0.968	0.911	2.8
44	Arkansas	0.702	0.722	0.792	0.785	0.616	0.698	1.025	0.958	0.902	3.1
45	Georgia	0.691	0.729	0.790	0.766	0.603	0.711	1.027	0.948	0.901	3.3
46	Louisiana	0.723	0.752	0.809	0.815	0.653	0.726	1.043	0.944	0.900	2.7
47	North Carolina	0.703	0.734	0.803	0.800	0.630	0.706	1.041	0.943	0.899	3.1
48	Tennessee	0.707	0.742	0.821	0.802	0.624	0.708	1.026	0.955	0.898	3.0
49	Texas	0.722	0.762	0.825	0.793	0.620	0.708	1.022	0.945	0.893	2.7
50	Pennsylvania	0.730	0.779	0.828	0.813	0.622	0.711	1.058	0.953	0.887	2.4
51	Oklahoma	0.661	0.678	0.769	0.765	0.603	0.682	1.024	0.953	0.885	3.6
	Entire U.S.	0.736	0.766	0.847	0.835	0.664	0.765	1.095	1.026	0.946	3.1

Source: EIA, *Petroleum Marketing Annual*, 2002

w = Withheld to avoid disclosure of individual company data

Figure 3.13 Price (excluding tax) of Motor Gasoline for the U.S. and Utah, 1984-2002



Source: EIA, *Petroleum Marketing Annual*, 2002

Table 3.23 **Federal and State Motor Fuel Taxes, January 1, 2003**
Cents per gallon

	Motor Gasoline	Diesel Fuel	Gasohol		Motor Gasoline	Diesel Fuel	Gasohol
Federal	18.40	24.40	13.20	Mississippi	18.40	18.40	18.40
Average State Tax	20.28	20.73	20.15	Missouri	17.00	17.00	17.00
Alabama	18.00	19.00	18.00	Montana	27.00	27.75	27.00
Alaska	8.00	8.00	8.00	Nebraska	24.60	24.60	24.60
Arizona	18.00	18.00	18.00	Nevada	23.00	27.00	23.00
Arkansas	21.50	22.50	21.50	New Hampshire	19.50	19.50	19.50
California	18.00	18.00	18.00	New Jersey	10.50	13.50	10.50
Colorado	22.00	20.50	22.00	New Mexico	18.90	19.90	18.90
Connecticut	25.00	26.00	24.00	New York	22.00	20.25	22.00
Delaware	23.00	22.00	23.00	North Carolina	23.40	23.40	23.40
District of Columbia	20.00	20.00	20.00	North Dakota	21.00	21.00	21.00
Florida	13.60	25.90	13.10	Ohio	22.00	22.00	22.00
Georgia	7.50	7.50	7.50	Oklahoma	17.00	14.00	17.00
Hawaii	16.00	16.00	16.00	Oregon	24.00	24.00	24.00
Idaho	25.00	25.00	22.50	Pennsylvania	25.90	30.80	25.90
Illinois	19.00	21.50	19.00	Rhode Island	30.00	30.00	30.00
Indiana	18.00	16.00	18.00	South Carolina	16.00	16.00	16.00
Iowa	20.00	22.50	19.00	South Dakota	22.00	22.00	20.00
Kansas	23.00	25.00	23.00	Tennessee	20.00	17.00	20.00
Kentucky	16.40	13.40	16.40	Texas	20.00	20.00	20.00
Louisiana	20.00	20.00	20.00	Utah	24.50	24.50	24.50
Maine	22.00	23.00	22.00	Vermont	20.00	26.00	20.00
Maryland	23.50	24.25	23.50	Virginia	17.50	16.00	17.50
Massachusetts	21.00	21.00	21.00	Washington	23.00	23.00	23.00
Michigan	19.00	15.00	19.00	West Virginia	25.35	25.35	25.35
Minnesota	20.00	20.00	20.00	Wisconsin	28.10	28.10	28.10
				Wyoming	14.00	14.00	14.00

Source: EIA, *Petroleum Marketing Monthly*